

Figure 1

10	20	30	40	50 	60
MLLFVLTCLL	AVFPAISTKS	PIFGPEEVNS	VEGNSVSITC	YYPPTSVNRH	TRKYWCRQGA
70	80	90	100	110	120
RGGCITLISS	EGYVSSKYAG	RANLTNFPEN	GTFVVNIAQL	SQDDSGRYKC	GLGINSRGLS
130	140	150	160	170	180
FDVSLEVSQG	PGLLNDTKVY	TVDLGRTVTI	NCPFKTENAQ	KRKSLYKQIG	LYPVLVIDSS
190	200	210	220	230	240
GYVN9NYTGR	IRLDIQGTGQ	LLFSVVINQL	RLSDAGQYLC	QAGDDSNSNK	KNADLQVLKP
250	- 260	270	280	290	300
ESETAXEDIY	GSVTFHCALG	PEVANVAKEL	CRQSSGENCD	v//wildkra	PAFEGRILLN
310	320	330	340	350	360
PQDKDGSFSV	VITGLRKEDA	GRYLCGAHSD	GQLQEGSPIQ	AWQLFVNEES	TIPRSPTVVK
370	380	390	400	410	420
GVAGSSVAVL	CPYNRKESKS	IKYWCLWEGA	QNGRCPLLVD	SEGWVKAQYE	GRLSLLEEPG
430	440	450	460	470	480 I
NGTFTVILNQ	LTSRDAGFYW	CLINGDILWR	TTVEIKIIEG	EBNTKABGMA	TAVLGETLKV
490	500	510	520	530	540
PCHFPCKFSS	XEKXMCKMNN	TGCQALPSQD	EGPSKAFVNC	DENSRLVSLT	LNLVTRADEG
550	- 560 I	570	580	. 590	- 600
WYWCGVKQGH	FYGETAAVYV	AVEERKAAGS	RDVSLAKADA	APDEKVLDSG	FREIENKAIQ
610	620	630	640	650 I	660
DPRLFASSKA	VADTRDQADG	SRASVDSGSS	EEQGGSSRAL	VSTLVPLGLV	LAVGAVAVGV
670	680	690	700	710 	720
ARARHRIOTVD	RVSIRSYRTD	ISMSDFENSR	EFGANDNMGA	SSITQETSLG	GKEEFVATTE
730	740	750	760		
STTETKEPKK	AKRSSKEEAE	MAYEDFLLQS	STVAAEAQDG	PQEA	

Figure 2

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Figure 3

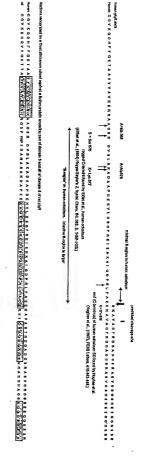


Figure 4

CORI	EDTAVYYCAR DRVTITCRASE COR 3 OHYDSTPPT	WVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTISRDNSKNTLYLQNNSLRAEDTAVYYCAR CDR3 FR4 SFTVNSGYFQHWGQGTLVTVSSGGGGSGGGSGGSETVLTQSPSTLSASIGDRVTITCRASEGIYHWLA FR2 WYQQKPGKAPKLLIYKASSLASGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQHYDSTPPT FR4 FR4 MYQCKPGKAPKLLIYKASSLASGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQHYDSTPPT FR4 FR4 FR4 FR4 FR4 FR4 FR4 FR	VKGRFTISF linker GGGSGGGGS SGSGSGTDF 6 HIS HHHHHHH	CDR 2 SGGGGGSG SGCVPSRF SGVPSRF	AISGSGGS FR4 GTLVTVSS CDR2 YKASSLAS myc EQKLISEE	WVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFT CDR3 FR4 SFTVNSGYFQHWGQGTLVTVSSGGGGSGGGGGGGGGGGGGGGGGGGGGGGGGGG
	SWANSSELL	MKYLLPTAAAGLILLAAOPAMADYKAKOVOLVOSGGGLVOPGGSLRLSCAASGFTFSSVAMS	VOLVOSGGG	DYKAKO	LAAOPAMA	MKYLLPTAAAGLLL:
	CDR 1	Heavy chain FR 1		FLAG		PelB leader

repeated three times), a light chain variable region, a myc epitope tag and a 6HIS tag (for purification by Immobilized Metal-ion Affinity Chromatography (IMAC)). The framework (FR) and complementarity-The arrino acid sequence of the secreted form of the ScFv 4AF is shown. The ScFv consists of a pelb leader determining regions (CDR) of the heavy chain and light chain are indicated. (for secretion in E. coli), a FLAG epitope tag, a heavy chain variable region, a linker sequence (GGGS